Town Center Streetscape & Battle Green Project

Lexington, MA

Field Test Traffic Safety Plan

Location 1: Mass Ave (WB) RT Lane at Edison Way

Location 2: Mass Ave (EB) RT Lane at Waltham Street

Location 3: Harrington Road (Between Bedford Street & Mass. Avenue)

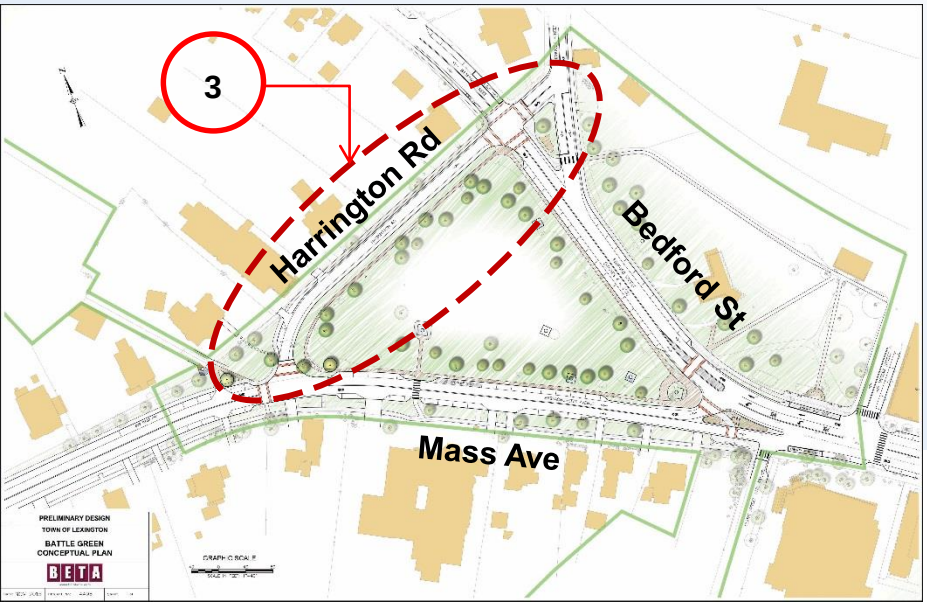
Public Meeting

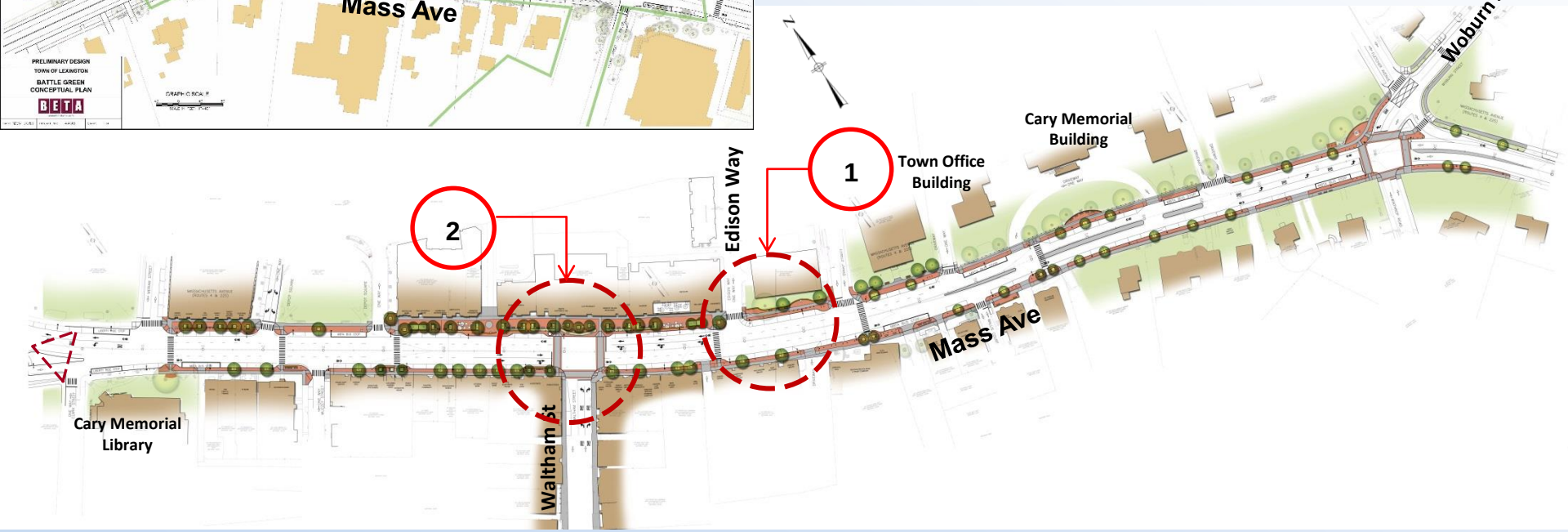
April 7, 2016

Presentation Outline

- Proposed Safety Improvements
- Purpose of Field Test Traffic Safety Plan
- Field Test Procedure/Process/Evaluation
- Duration of Field Test
- Next Steps

Field Test Locations





Location 1: Mass Ave (WB) Right Turn Lane at Edison Way
Existing Conditions

Location 1: Mass Ave (WB) Right Turn Lane at Edison Way

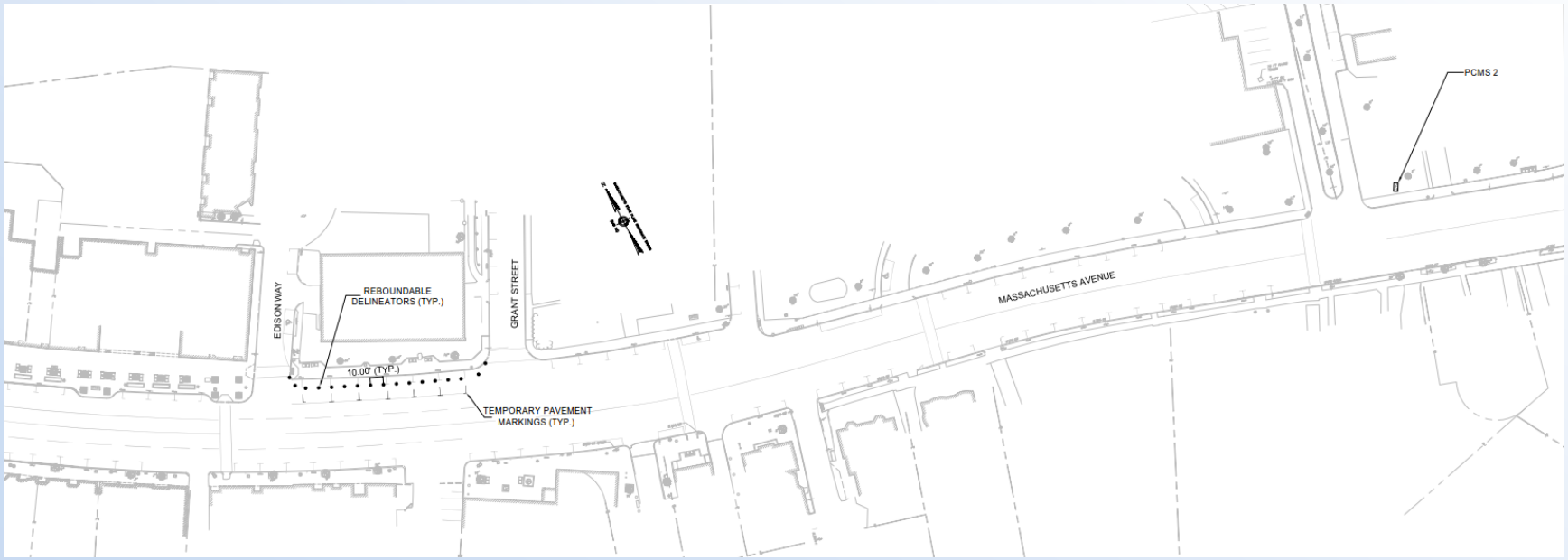
Proposed Safety Improvements

(Right Turn Movement Permitted)

Location 1: Mass Ave (WB) Right Turn Lane at Edison Way

Field Test – Right Turn Lane Closure

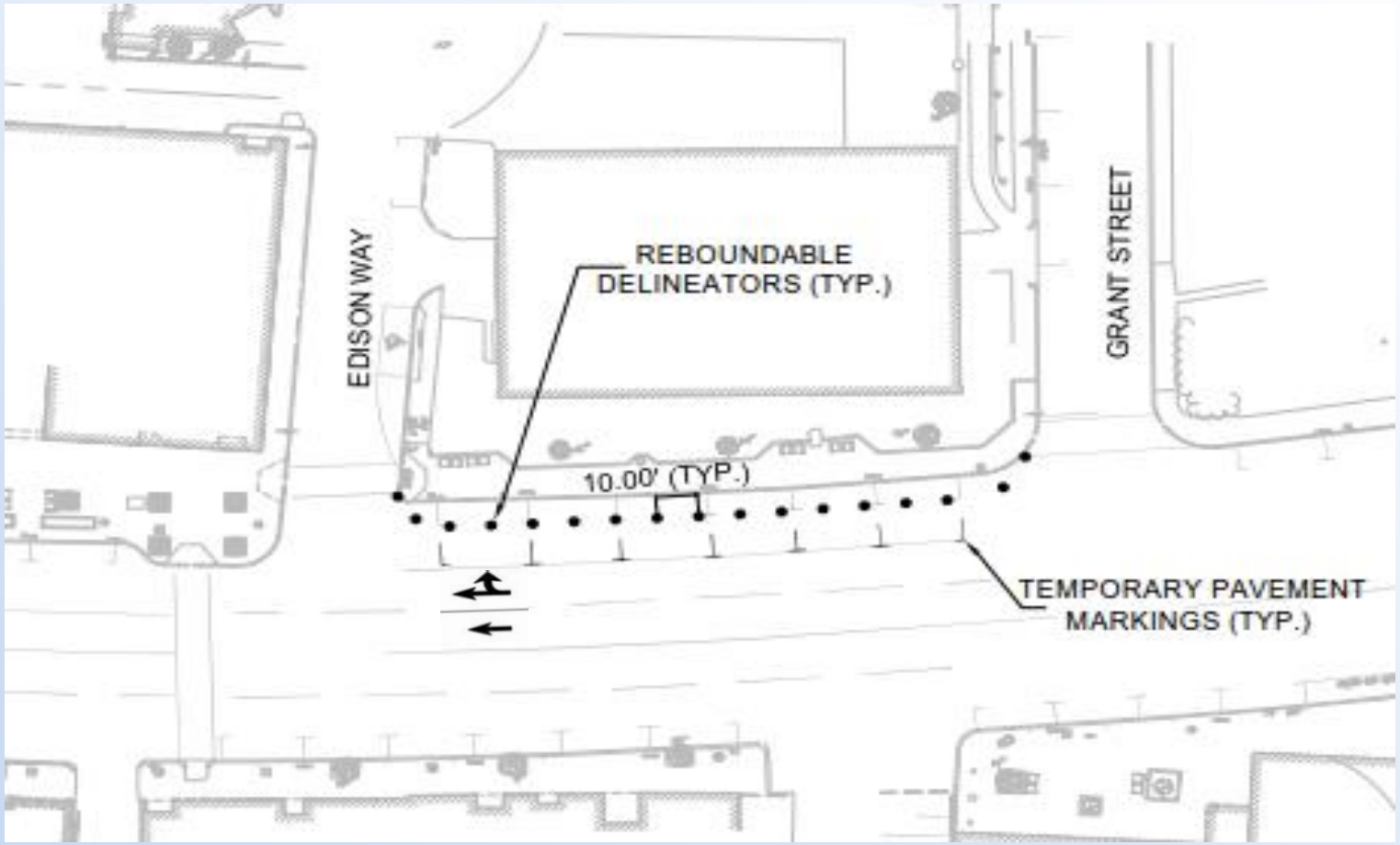
(Right Turn Movement Permitted)



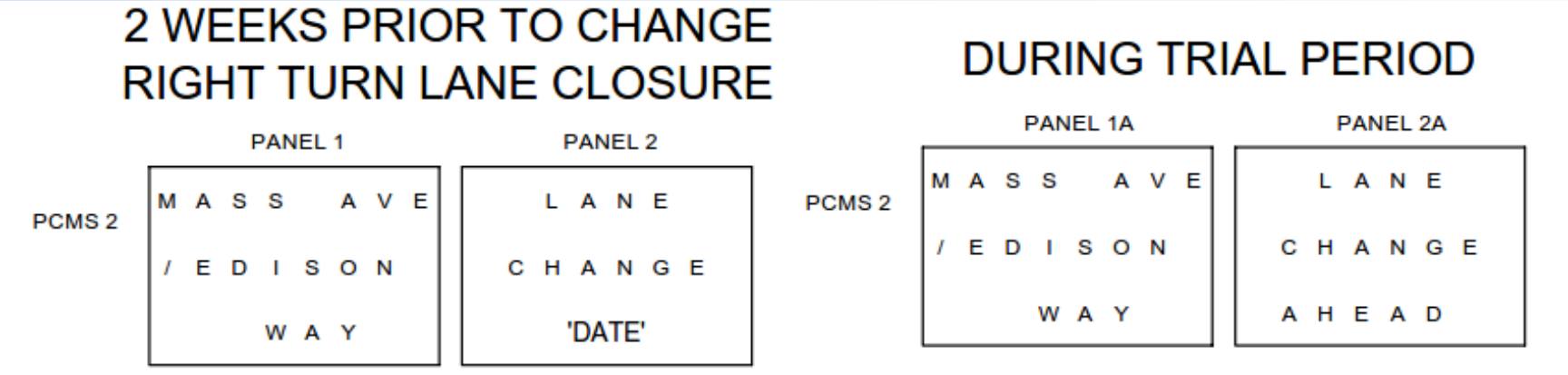
Location 1: Mass Ave (WB) Right Turn Lane at Edison Way

Field Test – Right Turn Lane Closure

(Right Turn Movement Permitted)



Location 1: Mass Ave (WB) RT Lane at Edison Way
PCMS (Portable Changeable Message Sign)



Location 1: Mass Ave (WB) RT Lane at Edison Way

Location 1: Mass Ave (WB) Right Turn Lane at Edison Way

IMPLEMENTATION STEPS

1. Install Portable Changeable Message Sign (PCMS) two weeks prior to right turn lane closure and post announcement on the town website.

2. Implementing the right turn lane closure includes the following:
   a) Install temporary pavement markings on the Massachusetts Ave westtbound approach.
   b) Install reboundable delineators to close right turn lane.

3. Implementation shall start during non-peak traffic periods and non-special event days.

4. Approximately one week after, observe field conditions and collect traffic data. Keep closure in place for approximately 3-5 months to allow for multiple observations of field conditions.
   a) Observations include traffic queue, delays, pedestrian/bicycle impacts, parking.
   b) Traffic data includes right turn volume.

Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street
Existing Conditions

Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street

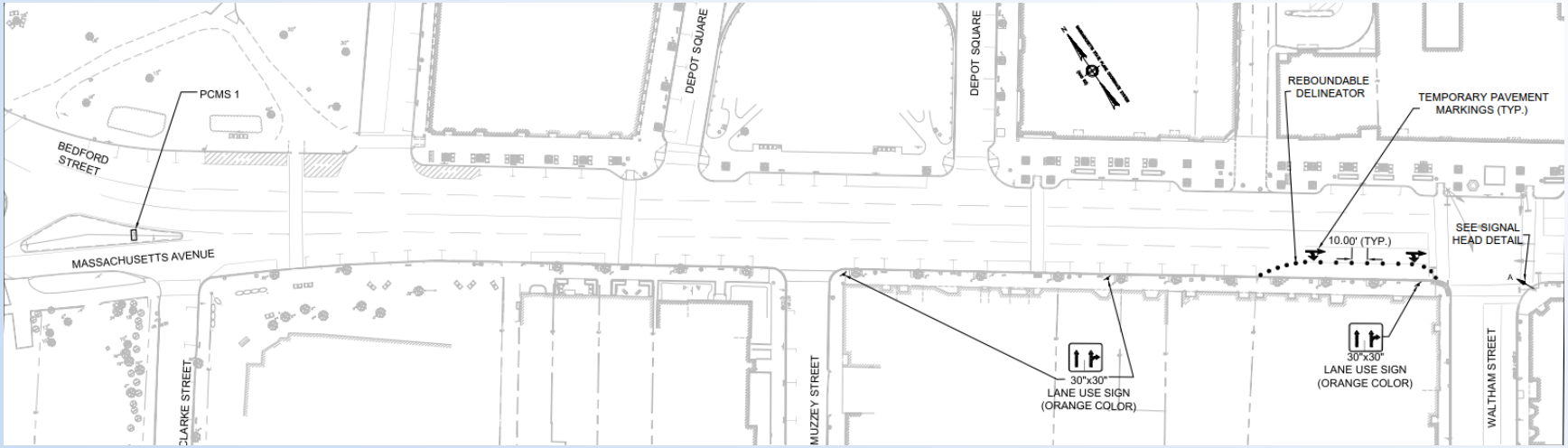
Proposed Safety Improvements

(Right Turn Movement Permitted)

Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street

Field Test – Right Turn Lane Closure

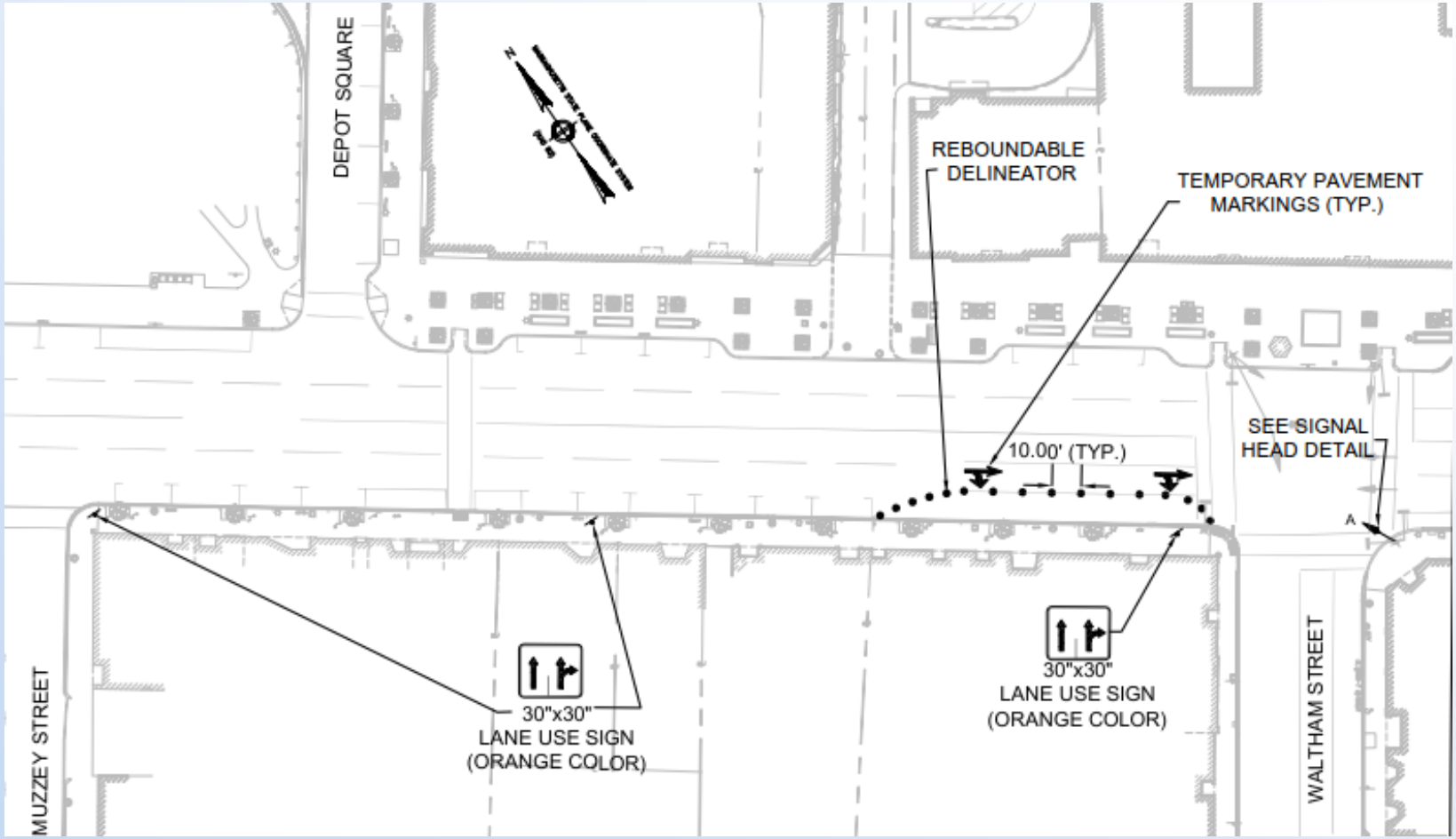
(Right Turn Movement Permitted)



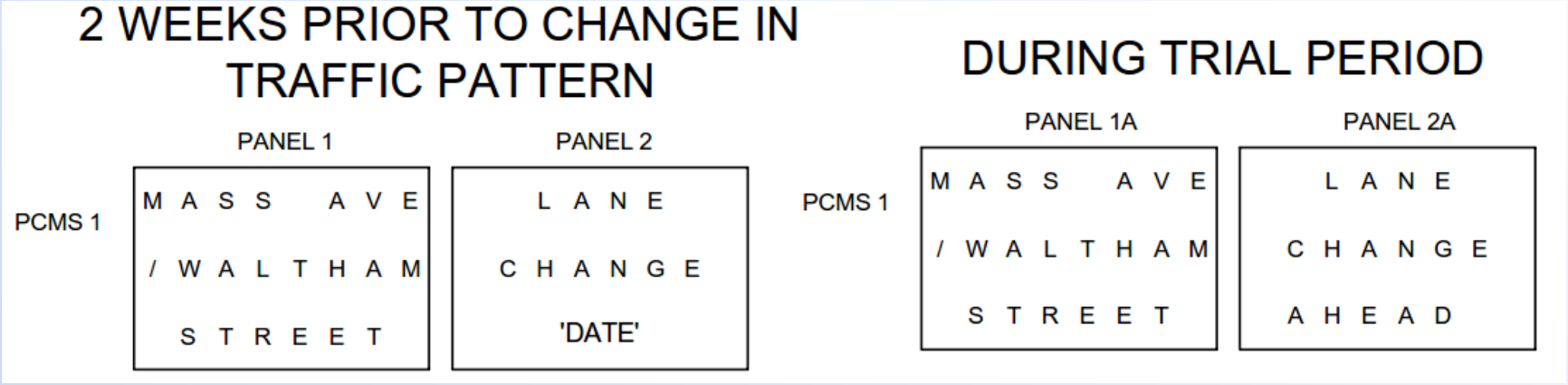
Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street

Field Test – Right Turn Lane Closure

(Right Turn Movement Permitted)



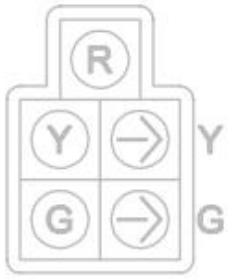
Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street
PCMS (Portable Changeable Message Sign)



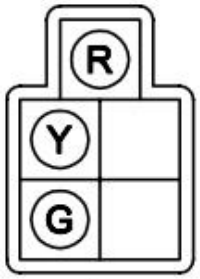
Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street

3 FOOT YELLOW REBOUNDABLE DELINEATOR

SIGNAL HEAD DETAIL



A
EXISTING



A
PROPOSED
*YELLOW AND GREEN ARROWS SHALL BE COVERED DURING TRIAL PERIOD

Location 2: Mass Ave (EB) Right Turn Lane at Waltham Street

IMPLEMENTATION STEPS

1. Install Portable Change Message Sign (PCMS) sign two weeks prior to right lane closure and post announcement on the town website.

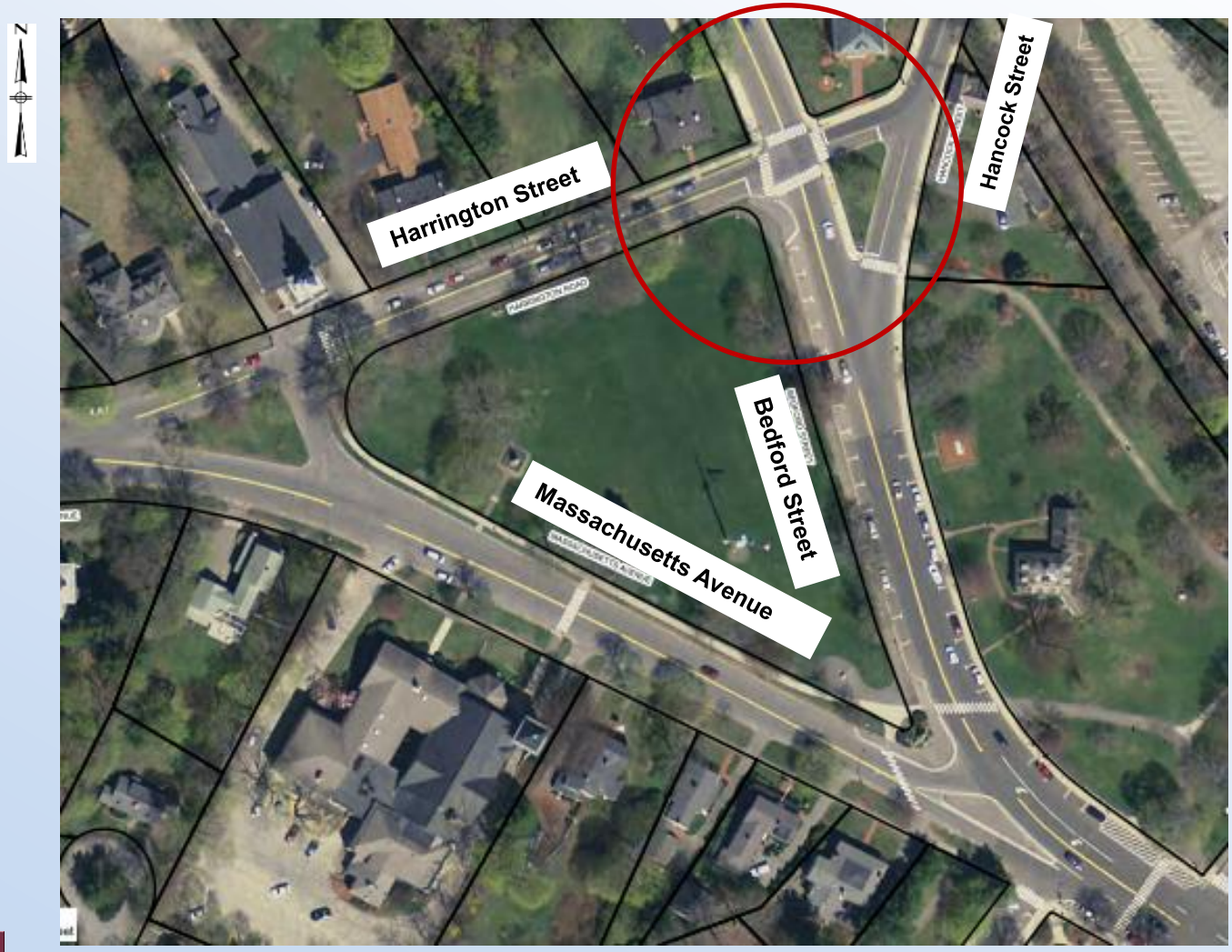
2. Implementing the right turn lane closure consists of the following:
   a) Cover right turn signal head arrows on signal head
   b) Install temporary pavement markings on the Massachusetts Ave eastbound approach.
   c) Install temporary signage on eastbound approach.
   d) Install reboundable delineators to close right turn lane.

3. Implementation shall start during non-peak traffic periods and non-special event days.

4. Approximately one week after, observe field conditions and collect traffic data. Keep closure in place for approximately 3-5 months to allow for multiple observations of field conditions.
   a) Observations include traffic queue, delays, pedestrian/bicycle impacts, parking.
   b) Traffic data includes right turn volume onto Waltham Street and traffic volumes on Muzzey Street, Forest Street.
   c) Pre-installation traffic data collection

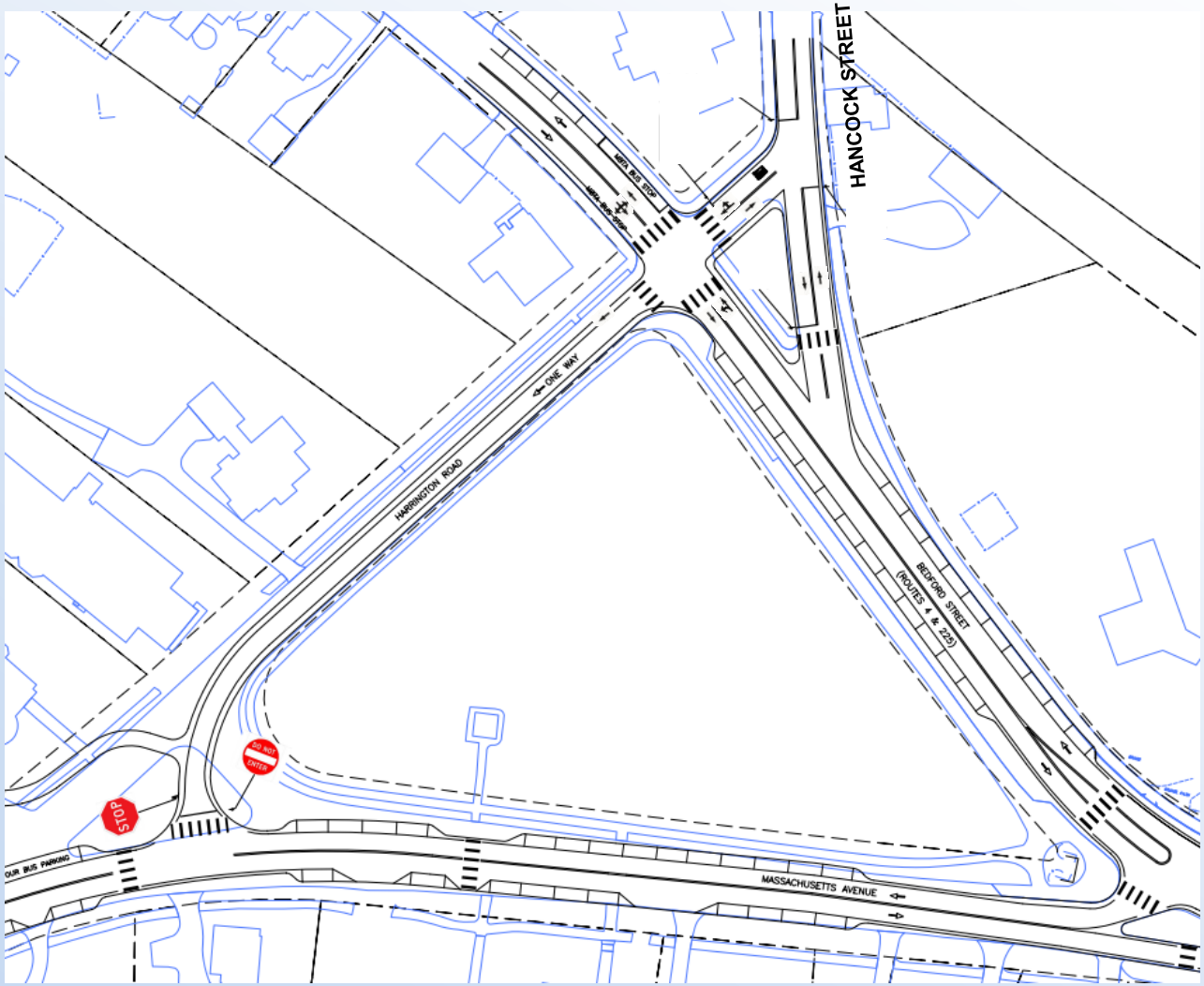
Location 3: Harrington Road (Between Bedford Street & Mass Ave)

Existing Conditions



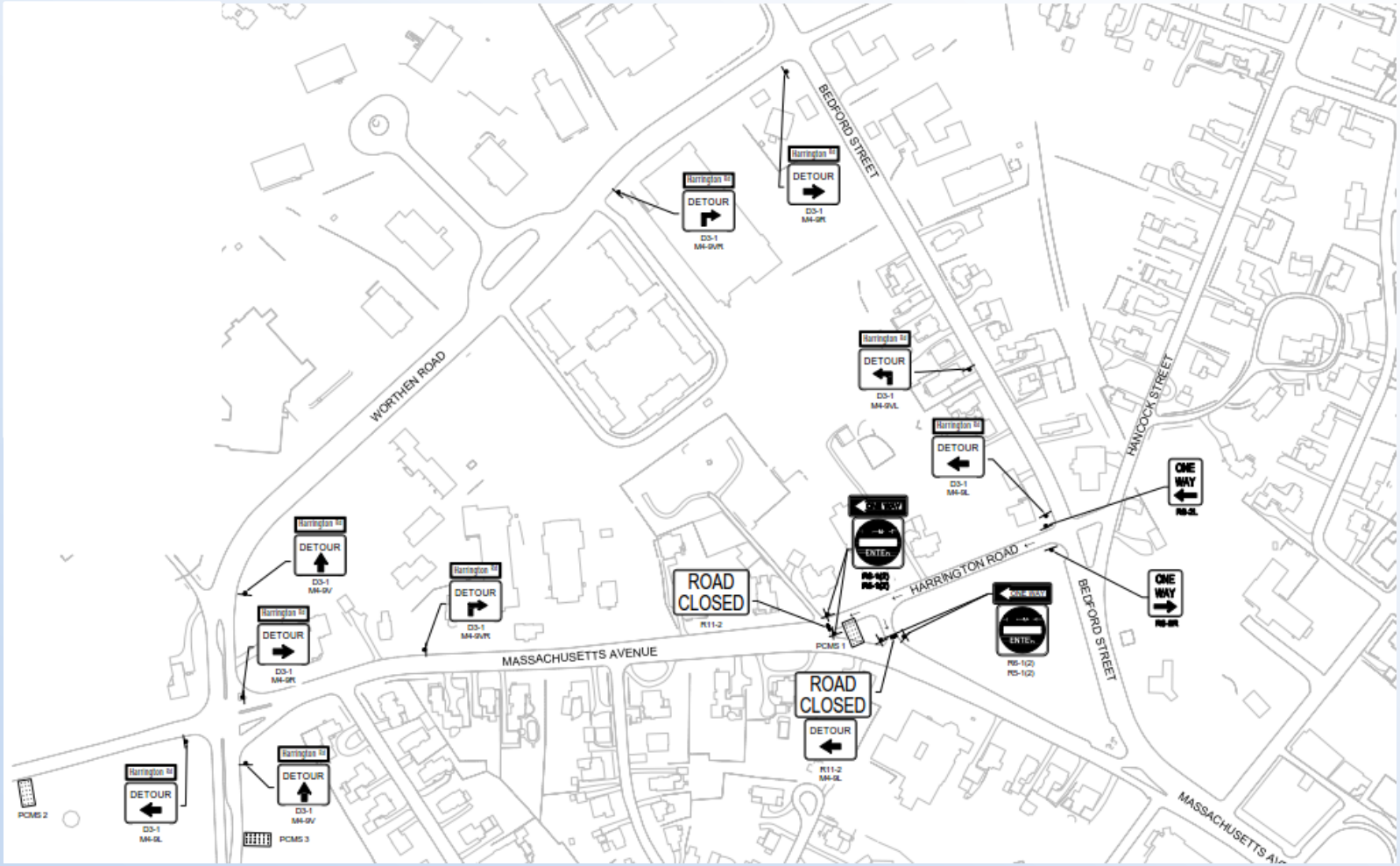
Location 3: Harrington Road (Between Bedford Street & Mass Ave)

Safety Improvements Under Consideration (Option 7)



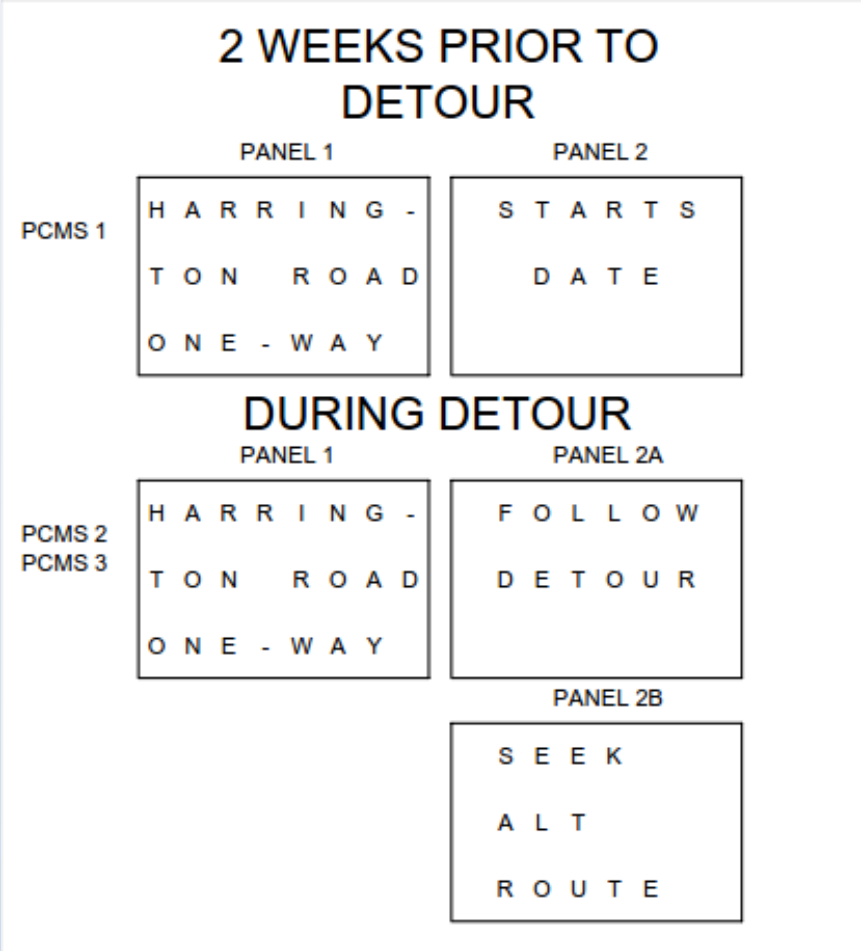
Location 3: Harrington Road (Between Bedford Street & Mass Ave)

Field Test – Harrington Road (EB) Closure



Location 3: Harrington Road (Between Bedford Street & Mass Ave)

PCMS (Portable Changeable Message Sign)



Location 3: Harrington Road (Between Bedford Street & Mass Ave)

IMPLEMENTATION STEPS

1. Install Portable Changeable Message Sign (PCMS) #1 two weeks prior to implementation of traffic detour and post announcement on the Town of Lexington website.

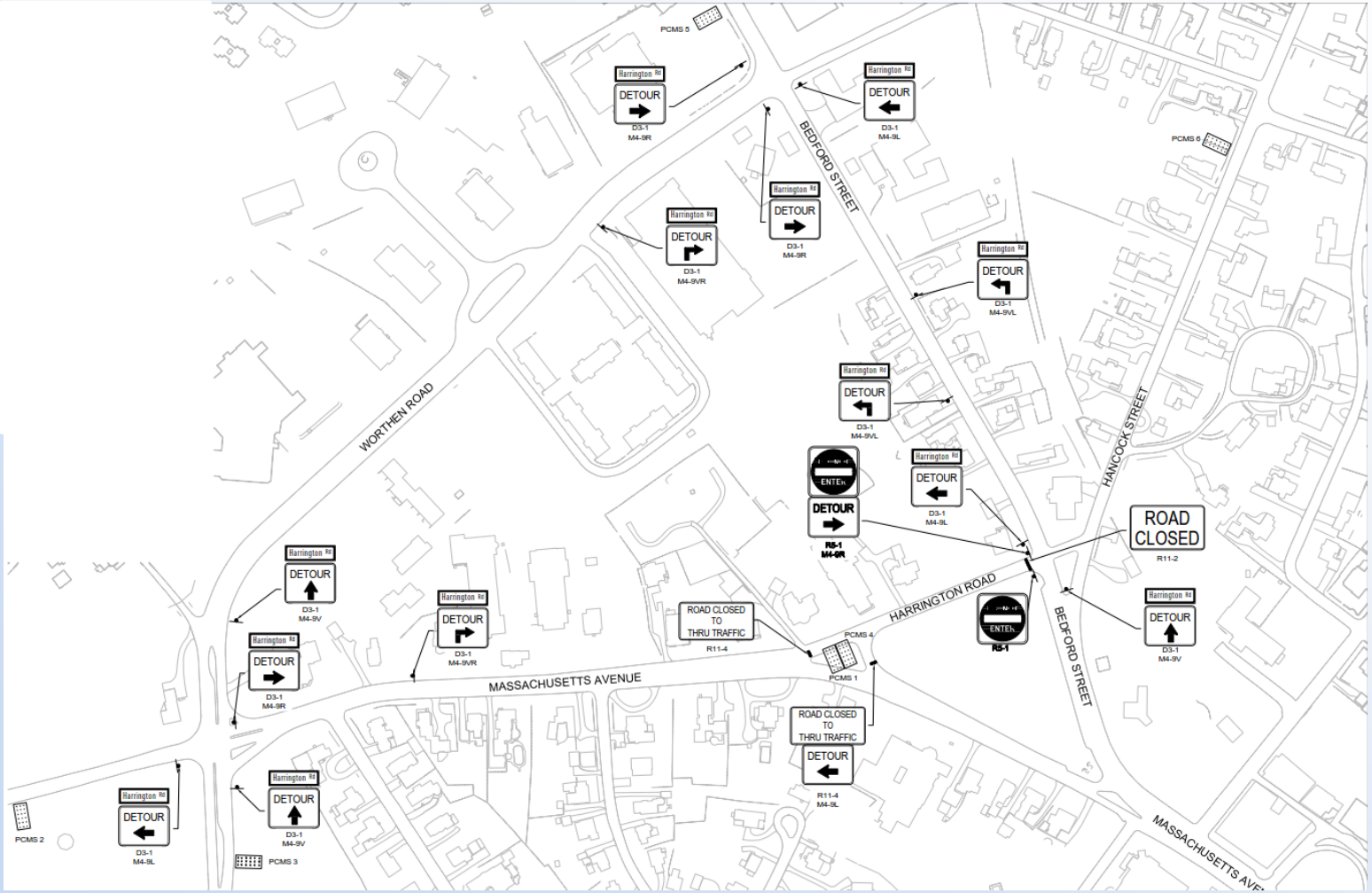
2. Install detour signage and Type III barricades, remove PCMS #1, and install PCMS #2 and #3

3. Implementation shall start during non-peak traffic periods and non-special event days.

4. Approximately one week after implementation of traffic pattern change, observe field conditions and collect traffic data. Keep change in place for approximately 3-5 months to allow for multiple observations of field conditions.
   a) Observations include traffic queue, delays, pedestrian/bicycle impacts, parking.
   b) Traffic data includes Meriam Street, Edgewood Road, Hancock Street, Revere Street, Massachusetts Avenue, Worthen Road, Bedford Street.
   c) Pre-installation traffic data collection

Location 3: Harrington Road (Between Bedford Street & Mass Ave)

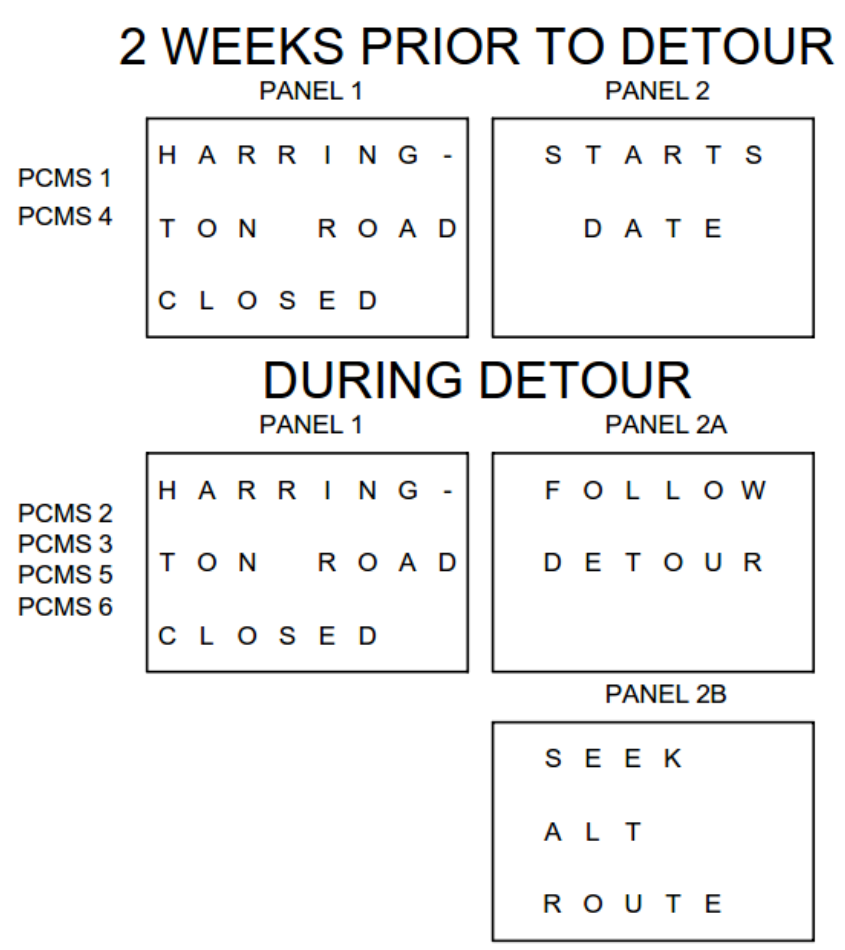
Field Test – Harrington Full Road Closure



Location 3: Harrington Road (Between Bedford Street & Mass Ave)

Field Test – Harrington Full Road Closure

PCMS (Portable Changeable Message Sign)



Location 3: Harrington Road (Between Bedford Street & Mass Ave)
Field Test – Harrington Full Road Closure

IMPLEMENTATION STEPS:

1. If deemed necessary after the one-way closure, install Portable Changeable Message Sign (PCMS) #1 and #4, two weeks prior to implementation of traffic detour and post announcement on the Town of Lexington website.

2. Install detour signage and Type III barricades, remove PCMS #1 and #4 and install PCMS #2, #3, #5 and #6.

3. Implementation shall start during non-peak traffic periods and non-special event days.

4. Approximately one week after implementation of traffic pattern change, observe field conditions and collect traffic data. Keep change in place for approximately 3-5 months to allow for multiple observations of field conditions.
   a) Observations include traffic queue, delays, pedestrian/bicycle impacts, parking.
   b) Traffic data includes Meriam Street, Edgewood Road, Hancock Street, Revere Street, Massachusetts Avenue, Worthen Road, Bedford Street.

Next Steps

- Learn more details regarding the project: http://www.lexingtonma.gov/center-streetscape-and-battle-green-projects

- Email suggestions to selectmen@lexingtonma.gov Written comments will be accepted until April 28.

- Attend Board of Selectmen meeting and provide your comments during the Public Comment period. Comments at Selectmen's meetings will be accepted until May 2.

- The Selectmen to discuss/approve the final Field Test program plan on May 9.

Questions and Comments